NC/QC/DD-W13/2019-20/PH-CA1 Date: 14-10-2019

1. TESTING OF COARSE AGGREGATES (20 mm):

Sub: Testing of Construction Materials.
{Project*: Providing Pot Hole Filling in Ward No.13 Mallasandra Shettyhalli Sub- Division.}
Ref.: Material testing/QC/19-20,
Report Required for: Assistant Executive Engineer,
Shettyhalli Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: S.M.Eregowda.

Table - 1.1 : SIEVE ANALYSIS :

IS Sieve Size, mm	Percentage passing	Requirements as per IS 383-1970 (Reaffirmed on 2002) % Passing	
	20 mm Sample	Single size	Graded
40 mm	100.00	100.00	100.00
20 mm	95.80	85-100	90 - 100
10 mm	31.70	0 - 20	25 - 55
4.75 mm	3.25	0 - 5	0 - 10

TABLE 1.2 :

SL No	Test conducted	Results	Requirements as per IS:383-1970 & Tests Conforms to IS 2386(Part I to IV) – 1963 (Reaffirmed on 2002)
1.	Flakiness Index	22.14 %	Not to exceed 25 %
2.	Crushing value	27.52 %	Not to exceed 45 % for concrete other than for wearing surfaces and 30% for concrete for wearing surfaces

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
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NC/QC/DD-W13/2019-20/PH–FA1 Date: 14-10-2019

1. TESTING OF FINE AGGREGATES :

Sub: Testing of Fine Aggregates.
{Project*: Providing Pot Hole Filling in Ward No.13 Mallasandra Shettyhalli Sub- Division.}
Ref.: Material testing/QC/19-20,
Report Required for: Assistant Executive Engineer,
Shettyhalli Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: S.M.Eregowda.

TABLE - 1.1 : SIEVE ANALYSIS :

IS Sieve Size,mm	Percentage Passing	Specification as Per IS: 383-1970(Reaffirmed 2002) Percentage Passing			Remarks
		Zone-I	Zone-II	Zone -II	
04.75	**97.40**	90-100	90-100	90-100	The Sample Conforms to Grading **Zone-II**
02.36	**85.05**	60-95	75-100	85-100	
01.18	**59.20**	30-70	55-90	75-100	
600. mic	**41.95**	15.34	35-59	60-79	
300.mic	**20.40**	5-20	8-30	12-40	
150.mic	**6.80**	0-10	0-10	0-10	

TABLE 1.2 ;

Sl No	Test Conducted	Sample	Results	Requirements as Per IS. Specification IS :383-1970 (Reaffirmed 2002)
1	Bulking of Sand	001	**15.85 %**	-----
2	Silt Content	----	**0.61 %**	Not more than 8%
3	Specific Gravity	----	**2.61**	-------

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NC/QC/DD-W13/2019-20/PH-C2 Date: 14-10-2019

1. TEST REPORT ON CEMENT:

Sub: Testing of 53 Grade Cement Sample (IS 12269-1987).
{Project*: Providing Pot Hole Filling in Ward No.13 Mallasandra Shettyhalli Sub- Division.}
Ref.: Material testing/QC/19-20,
Report Required for: Assistant Executive Engineer,
Shettyhalli Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: S.M.Eregowda.

PHYSICAL TESTS ON CEMENT

Grade * : 53,
Type * : O.P.C

TABLE 1.1:

SL No	Name of Test	Test Results	Requirements as per IS 8112-1989
1	Initial setting time	**151 min**	Shall not be less than 30 min
2	Final setting time	**275 min**	Shall not be more than 600 min
3	Fineness (by dry sieving on IS 90 micron sieve)	**2.17 %**	Not to exceed 10.0%
4	Soundness test(by Le-Chatelier's method)	**1.84 mm**	Shall not be more than 10 mm
5	Compressive strength a) 3 days (average of three results)	**28.04 N/Sq mm**	Shall not be less than 27 N/Sqmm

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NC/QC/DD-W13/2019-20/PH-PCC1 Date: 10-10-2019

1. TESTING OF COARSE AND FINE AGGREGATES:

Sub: Testing of Coarse and Fine aggregates to be used for bed concrete.
{Project*: Providing Pot Hole Filling in Ward No.13 Mallasandra Shettyhalli Sub- Division.}
Ref.: Material testing/QC/19-20,
Report Required for: Assistant Executive Engineer,
Shettyhalli Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: S.M.Eregowda.

1. COARSE AGGRGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage passing	Requirements as per IS 383-1970 (Reaffirmed on 2007) % Passing	
	40 mm Sample	Single size	Graded
40mm	100.00	85-100	90 – 100
20mm	64.05	0 -20	30- 70
10mm	31.70	0 -5	10- 35
4.75mm	3.10	------	0- 5

2. FINE AGGREGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage Passing	Specification as Per IS: 383-1970(Reaffirmed 2002) Percentage Passing			Remarks
		Zone-I	Zone-II	Zone -III	
04.75	96.45	90-100	90-100	90-100	The Sample Conforms to Grading **Zone-II**
02.36	81.05	60-95	75-100	85-100	
01.18	58.60	30-70	55-90	75-100	
600.mic	44.95	15-34	35-59	60-79	
300.mic	15.40	5-20	8-30	12-40	
150.mic	7.05	0-10	0-10	0-10	

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NC/QC/DD-W13/2019-20/PH-C1 Date: 10-10-2019

1. TEST REPORT ON CEMENT:

Sub: Testing of 53 Grade Cement Sample (IS 12269-1987).
{Project*: Providing Pot Hole Filling in Ward No.13 Mallasandra Shettyhalli Sub- Division.}
Ref.: Material testing/QC/19-20,
Report Required for: Assistant Executive Engineer,
Shettyhalli Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: S.M.Eregowda.

PHYSICAL TESTS ON CEMENT

Grade * : 53,
Type * : O.P.C

TABLE 1.1:

SL No	Name of Test	Test Results	Requirements as per IS 8112-1989
1	Initial setting time	159 min	Shall not be less than 30 min
2	Final setting time	280min	Shall not be more than 600 min
3	Fineness (by dry sieving on IS 90 micron sieve)	1.78 %	Not to exceed 10.0%
4	Soundness test(by Le-Chatelier's method)	2.09 mm	Shall not be more than 10 mm
5	Compressive strength a) 3 days (average of three results)	28.17 N/Sq mm	Shall not be less than 27 N/Sqmm

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TABLE 1.2

SL No	Test conducted	Test Results	Tests Conforms to IS 2386(Part I to IV)– 1963 (Reaffirmed on 2002) & Requirements as per IS:383-1970 & M.o.R.T.H Specification, V Revision -2013.
1.	Aggregate Impact Value	**26.19%**	Not more than 30.00 %
2.	Combined Flakiness and Elongation index, %	**27.66%**	Not more than 35.0 %
3.	Water absorption, %	**0.39%**	Not more than 2.0 %
4.	Plasticity Index, %	**NP**	Not more than 6.0 %

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NC/QC/DD-W13/2019-20/PH-W2 Date: 05-10-2019

TEST REPORT ON WET MIX MACADAM MIX

(GRADATION TEST)

Sub: To conduct Gradation test on Wet Mix Macadam (WMM) Mix.
{Project*: Providing Pot Hole Filling in Ward No.13 Mallasandra Shettyhalli Sub- Division.}
Ref.: Material testing/QC/19-20,
Report Required for: Assistant Executive Engineer,
Shettyhalli Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: S.M.Eregowda.

TEST RESULTS

1. Gradation Test:

TABLE 1.1

Sieve Size mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Specified Limits as per MoRTH Specifications, V Revision-2013
53.00	100.00	100
45.00	95.05	95-100
26.50	---	-
22.40	71.40	60-80
11.20	53.80	40-60
4.75	32.05	25-40
2.36	26.30	15-30
0.600	14.20	8-22
0.075	4.10	0-5

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TABLE 1.2

SL No	Test conducted	Test Results	Tests Conforms to IS 2386(Part I to IV)– 1963 (Reaffirmed on 2002) & Requirements as per IS:383-1970 & M.o.R.T.H Specification, V Revision -2013.
1.	Aggregate Impact Value	**27.14%**	Not more than 30.00 %
2.	Combined Flakiness and Elongation index, %	**28.95%**	Not more than 35.0 %
3.	Water absorption, %	**0.42 %**	Not more than 2.0 %
4.	Plasticity Index, %	**NP**	Not more than 6.0 %

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ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಲೆಬ್ಬಿಹಳ್ಳಿ ಉಪವಿಭಾಗ, ದಾಸರಹಳ್ಳಿ ವಲಯ
ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾ[illegible] ಪಾಲಿಕೆ
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NC/QC/DD-W13/2019-20/PH-W1 Date: 03-10-2019

TEST REPORT ON WET MIX MACADAM MIX
(GRADATION TEST)

Sub: To conduct Gradation test on Wet Mix Macadam (WMM) Mix.
(Project*: Providing Pot Hole Filling in Ward No 13 Mallasandra Shettyhalli Sub- Division.)
Ref.: Material testing/QC/19-20.
Report Required for: Assistant Executive Engineer,
Shettyhalli Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: S.M.Eregowda.

TEST RESULTS

1. Gradation Test:

TABLE 1.1

Sieve Size mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Specified Limits as per MoRTH Specifications, V Revision-2013
53.00	100.00	100
45.00	98.40	95-100
26.50	---	-
22.40	75.05	60-80
11.20	54.10	40-60
4.75	32.90	25-40
2.36	27.05	15-30
0.600	14.50	8-22
0.075	3.85	0-5

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